

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2023-026</u>	Cast/Station Name: <u>Mary</u>	Analysis Date (dd mmm yyyy): <u>25 Sept. 2023</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>241.5980</u>	Ratio After Standardization: <u>241.5980</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____ After: <u>no Δ</u> Notes: _____	K ₁₅ VALUE: 0.999 <u>86</u> Batch #: <u>P165</u> Exp Batch Date: <u>15 April 2024</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>~21</u> °C Room Temperature: <u>21</u> °C Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
P165	IAPSO		1.99967	Accepted		- no adjustment required
P165	as a sample		1.99970	1.99969		- PS = 34.9932
332	LBP7	13	1.86614	1.86617		- L stated = 34.994 ✓
385	CS00	16	1.83968	1.83972		
375	"	6	1.94500	1.94498		
326	LBP7	7	1.94496	1.94500		
153	LC08	11	1.85799	1.85796		
391	CS02	1	1.96706	1.96706		
329	LBP7	10	1.93508	1.93509		
333	LBP7	14	1.86384	1.86383		
DWR			1.97826	1.97828		
178	LC11	2	1.97199	1.97201		
383	CS00	14	1.86048	1.86050		
336	LBP7	17	1.85275	1.85277		
5157	Loop 157		1.83962	1.83964		
181A	LC11	5	1.95459	1.95468	1.95474	- ↑ conductivities
42	LB08	14	1.85868	1.85868		
5006	Loop 6		1.75397	1.75398		
5176	Loop 176		1.75609	1.75608		
370B	CS00	1	1.96723	1.96721		
327	LBP7	8	1.94375	1.94372		
302	LG06	17	1.85243	1.85245		
334	LBP7	15	1.86130	1.86131		
393A	CS02	3	1.95288	1.95291		
356	LBP3	2	1.94056	1.94058		Final Standby Value:
331	LBP7	12	1.88803	1.88814	1.88810	

Notes: DWR 1.97834 1.97832

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2023-026</u>	Cast/Station Name: <u>Many</u>	Analysis Date (dd mmm yyyy): <u>25 Sept. 2023</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>2418980</u>	Ratio After Standardization: <u>26</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>/</u>	K ₁₅ VALUE: <u>0.999</u>
	After: <u>/</u>	Batch #: <u>see pg. 1</u>
	Notes: <u>/</u>	Batch Date: <u>/</u>
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>~22</u> °C
		Room Temperature: <u>22.3</u> °C
		Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
378	CS00	9	1.93930	1.93933		
392	CS02	2	1.96063	1.96063		
5154	Loop154		1.84825	1.84823		
330	LBP7	11	1.91761	1.91765		
373	CS00	4	1.95032	1.95035		
381	CS00	12	1.86720	1.86726		
5179	Loop179		1.80088	1.80084		
382	CS00	13	1.986266	1.986267		
374	CS00	5	1.94556	1.94553		
181B	LC11	5	1.95469	1.95466		
116	LC02	7	1.82728	1.82730		
328	LBP7	9	1.94131	1.94129		Sept 26, 2023
320	LBP7	1	1.96706	1.96709		
386	CS00	17	1.83963	1.83966		
393B	CS02	3	1.95288	1.95286		
5170	Loop170		1.80173	1.80175		
323	LBP7	4	1.94939	1.94941		
5128	Loop128	1	1.85549	1.85548		
338	LBP5	1	1.96623	1.96624		
380	CS00	11	1.90373	1.90376		
379	CS00	10	1.92885	1.92888		
5160	Loop160	2	1.82176	1.82177		
5147	Loop147		1.86713	1.86714		
324	LBP7	5	1.94804	1.94808		
5138	Loop138		1.84557	1.84562		Final Standby Value:
8413	LBP4	2	1.96784	1.96785		

Notes: DWR 1.97824 1.97826

0.99987x2 = 1.99974

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Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>7023-026</u>	Cast/Station Name: <u>Many</u>	Analysis Date (dd mmm yyyy): <u>26 Sept. 2023</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24.5980</u>	Ratio After Standardization: <u>24.5980</u>	<u>26 and 28</u>
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>4.77</u> After: <u>4.75</u> Notes: <u>Accepted</u>	K ₁₅ VALUE: 0.999 <u>87</u> Batch #: <u>P166</u> Batch Date: <u>6 April 2025</u>
<u>199973</u> <u>199974</u>		Bath Temperature: <u>24</u> °C Sample Temperature: <u>~22</u> °C Room Temperature: <u>21.0</u> °C Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
494	GE01	1	1.81023	1.81026		
510B	46	1	1.79869	1.79870		
209	LD11	14	1.91845	1.91846		
384	CS00	15	1.85062	1.85066		
410	CS02	20	1.85337	1.85336		
243	LD06	8	1.87529	1.87527		
429	CS06	7	1.81788	1.81789		
567	42	1	1.80461	1.80463		
287	LG06	2	1.96018	1.96020		
507	42	6	1.64857	1.64863	1.64860	→ salt crystal build-up around opening/insert
267	LD11	12	1.93945	1.93943		
211	LD11	16	1.86671	1.86681	1.86682	
200A	LD11	5	1.96282	1.96284		
370A	CS00	1	1.96717	1.96719		
322	LBP7	3	1.95117	1.95118		
215	LD11	20	1.86031	1.86038	1.86035	
203	LD11	8	1.94916	1.94915		
510A	46	1	1.79870	1.79872		
197	LD11	2	1.97446	1.97448		
212	LD11	17	1.86368	1.86365		
179	LC11	3	1.96758	1.96759		
372	CS00	3	1.95211	1.95215		
335	LBP7	16	1.85435	1.85433		
180	LC11	4	1.96155	1.96154		
5022	Loop 22	1	1.88458	1.88460		Final Standby Value:
5188	Loop 188	1	1.67593	1.67592		→ 28 September 2023

Notes:

DWR

1.97837

1.97840

AUTOSAL ANALYSIS LOGSHEET

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Cruise ID: <u>2023-026</u>	Cast/Station Name: <u>Many</u>	Analysis Date (dd mmm yyyy): <u>28 Sept. 2023</u>
Autosal Model: <u>8406B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>2415980</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: <u>0.999</u> Batch #: <u>see pg # 3</u> Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>~22</u> °C Room Temperature: <u>22.5</u> °C Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
2003	LD11	5	1.96282	1.96280		
204	LD11	9	1.94612	1.94611		
218	LD08	2	1.96091	1.96095		
205	LD11	10	1.94341	1.94341		
5102	Loop102	2	1.85669	1.85677	1.85678	
214	LD11	19	1.86158	1.86158		
371	C500	2	1.96050	1.96048		
376	C500	7	1.94321	1.94318		
199	LD11	4	1.96821	1.96825		
201	LD11	6	1.95447	1.95448		
455	14	2	1.78095	1.78099		
86	LB14	4	1.95375	1.95375		
202	LD11	7	1.95181	1.95182		
208	LD11	13	1.93367	1.93369		
501	GEO1	8	1.63935	1.63936		
321	LBP7	2	1.96009	1.96008		
4	LB01	6	1.82983	1.82984		
5200	Loop200	1	1.58586	1.58597	1.58596	
198	LD11	3	1.97202	1.97206		
206	LD11	11	1.94298	1.94296		
195	LC11	19	1.85690	1.85691		
473	12	2	1.78122	1.78119		
210	LD11	15	1.89150	1.89151		
85	LB14	3	1.96154	1.96153		
213	LD11	18	1.86223	1.86228		Final Standby Value:
5077	Loop77		1.85942	1.85941		

Notes: _____
DWR 1.97834 1.97835

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2023-026</u>		Cast/Station Name: <u>Many</u>		Analysis Date (dd mmm yyyy): <u>28 Sep. 2023</u>	
Autosal Model: <u>8400B</u>		Serial Number: <u>73274</u>			
Initial Standby Value: <u>247.5980</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard 	Before: 		K ₁₅ VALUE: <u>0.999</u>		Bath Temperature: <u>24</u> °C
	After: _____		Batch #: <u>see page 3</u>		Sample Temperature: <u>~22</u> °C
	Notes: 		Batch Date: _____		Room Temperature: <u>~22.3</u> °C
				Analyst: <u>KS</u>	

[illegible]

Notes: _____

2023-026 LaPerouse labels

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332 Sal LBP7 2023-026 50 m bot 13	385 Sal CS00 2023-026 10 m bot 16	375 Sal CS00 2023-026 250 m bot 6	326 Sal LBP7 2023-026 200 m bot 7	153 Sal LC08 2023-026 5 m bot 11	391 Sal CS02 2023-026 1000 m bot 1	329 Sal LBP7 2023-026 125 m bot 10	333 Sal LBP7 2023-026 30 m bot 14	178 Sal LC11 2023-026 1250 m bot 2	383 Sal CS00 2023-026 30 m bot 14
336 Sal LBP7 2023-026 5 m bot 17	5157 Sal LOOP157 2023-026 4.5 m bot 1	181A Sal LC11 2023-026 500 m bot 5	42 Sal LB08 2023-026 5 m bot 14	5006 SAL Loop6 2023-026 4.5 m bot 1	5176 Sal Loop176 2023-026 4.5 m bot 1	370B Sal CS00 2023-026 1000 m bot 1	327 Sal LBP7 2023-026 175 m bot 8	302 Sal LG06 2023-026 5 m bot 17	334 Sal LBP7 2023-026 20 m bot 15
393A Sal CS02 2023-026 500 m bot 3	356 Sal LBP3 2023-026 150 m bot 2	331 Sal LBP7 2023-026 75 m bot 12	378 Sal CS00 2023-026 150 m bot 9	392 Sal CS02 2023-026 750 m bot 2	5154 Sal Loop154 2023-026 4.5m m bot 1	330 Sal LBP7 2023-026 100 m bot 11	373 Sal CS00 2023-026 400 m bot 4	381 Sal CS00 2023-026 75 m bot 12	5179 Sal LOOP179 2023-026 4.5 m bot 1
382 Sal CS00 2023-026 50 m bot 13	374 Sal CS00 2023-026 300 m bot 5	181B Sal LC11 2023-026 500 m bot 5	116 Sal LC02 2023-026 5 m bot 7	328 Sal LBP7 2023-026 150 m bot 9	320 Sal LBP7 2023-026 1000 m bot 1	386 Sal CS00 2023-026 5 m bot 17	393B Sal CS02 2023-026 500 m bot 3	5170 Sal Loop170 2023-026 4.5 m bot 1	323 Sal LBP7 2023-026 400 m bot 4
5128 Sal Loop128 2023-026 4.5m m bot 1	338 Sal LBP5 2023-026 1000 m bot 1	380 Sal CS00 2023-026 100 m bot 11	379 Sal CS00 2023-026 125 m bot 10	5160 Sal Loop160 2023-026 4.5 m bot 1	5147 Sal Loop147 2023-026 4.5m bot 1	324 Sal LBP7 2023-026 300 m bot 5	5138 Sal LOOP138 2023-026 4.5 m bot 1	84B Sal LB14 2023-026 1000 m bot 2	494 Sal GEO1 2023-026 350 m bot 1
510B Sal 46 2023-026 Bot-10 m bot 1	209 Sal LD11 2023-026 100 m bot 14	384 Sal CS00 2023-026 20 m bot 15	410 Sal CS02 2023-026 5 m bot 20	243 Sal LD06 2023-026 5 m bot 8	429 Sal CS06 2023-026 5 m bot 7	502 Sal 42 2023-026 Bot-5 m bot 1	287 Sal LG06 2023-026 750 m bot 2	507 Sal 42 2023-026 10 m bot 6	207 Sal LD11 2023-026 150 m bot 12
211 Sal LD11 2023-026 50 m bot 16	200A Sal LD11 2023-026 750 m bot 5	370A Sal CS00 2023-026 1000 m bot 1	322 Sal LBP7 2023-026 500 m bot 3	215 Sal LD11 2023-026 5 m bot 20	203 Sal LD11 2023-026 300 m bot 8	510A Sal 46 2023-026 Bot-10 m bot 1	197 Sal LD11 2023-026 1500 m bot 2	212 Sal LD11 2023-026 30 m bot 17	179 Sal LC11 2023-026 1000 m bot 3

2.52

Notes: _____